A process for preparing an unsaturated carboxylic acid anhydride, comprising: reacting an unsaturated carboxylic acid and a lower aliphatic carboxylic acid anhydride in the presence of:

a catalyst; and

a stabilizer.

- 2. The process according to claim 1, wherein said catalyst comprises a metal salt.
- 3. The process according to claim 1, wherein said catalyst comprises a metal salt and said metal salt comprises at least one cation selected from the group consisting of Cr, Zn, Cu, Ca, Zr, Ti, Na, La, Hf, and mixtures thereof.
- 4. The process according to claim 1, wherein said catalyst comprises a metal salt and said metal salt comprises an anionic organic compound which has at least one carboxyl group.
- 5. The process according to claim 1, wherein said catalyst comprises a metal salt and said metal salt comprises an anionic organic compound which has at least one group selected from the group consisting of carboxylic acid, dicarboxylic acid, beta-ketocarboxylic acid, beta-diketone and mixtures thereof.

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- 6. The process according to claim 1, wherein said catalyst is selected from the group consisting of chromium acetate, zirconium acetylacetonate, titanium acetylacetonate and mixtures thereof.
- 7. The process according to claim 1, wherein the unsaturated carboxylic acid anhydride is methacrylic anhydride.
  - 8. The process according to claim 1, wherein the lower aliphatic carboxylic acid anhydride is acetic acid anhydride.
  - 9. The process according to claim 1, wherein the unsaturated carboxylic acid is methacrylic acid.
  - 10. The process according to claim 1, wherein the stabilizer is selected from the group consisting of hydroquinone, hydroquinone monomethyl ether, topanol O, topanol A, phenothiazine, N,N'-diphenyl-p-phenylene diamine, and a mixture thereof.
  - 11. The process according to claim 1, further comprising distilling the unsaturated carboxylic acid anhydride.
- 12. The process according to claim 1, further comprising separating the catalyst from the unsaturated carboxylic acid anhydride.

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- 13. The process according to claim 1, wherein a molar ratio of the carboxylic acid anhydride to the unsaturated carboxylic acid ranges from 0.5 to 1.
- 14. The process according to claim 1, wherein a molar ratio of the carboxylic acid anhydride to the unsaturated carboxylic acid ranges from 0.55 to 0.65.
  - 15. A process for preparing methacrylic anhydride, comprising: reacting methacrylic acid and acetic anhydride in the presence of:

a catalyst; and

a stabilizer.

- 16. The process according to claim 15, wherein said catalyst comprises a metal salt and said metal salt comprises at least one cation selected from the group consisting of Cr, Zn, Cu, Ca, Zr, Ti, Na, La, Hf, and mixtures thereof.
- 17. The process according to claim 15, wherein said catalyst comprises a metal salt and said metal salt comprises an anionic organic compound which has at least one carboxyl group.
- 18. The process according to claim 15, wherein said catalyst comprises a metal salt and said metal salt comprises an anionic organic compound which has at least one group selected from the group consisting of carboxylic acid, dicarboxylic acid, beta-ketocarboxylic acid, beta-diketone and mixtures thereof.

- 19. The process according to claim 15, wherein said catalyst is selected from the group consisting of chromium acetate, zirconium acetylacetonate, titanium acetylacetonate and mixtures thereof.
- 20. The process according to claim 15, wherein the stabilizer is selected from the group consisting of hydroquinone, hydroquinone monomethyl ether, topanol O, topanol A, phenothiazine, N,N'-diphenyl-p-phenylene diamine, and a mixture thereof.